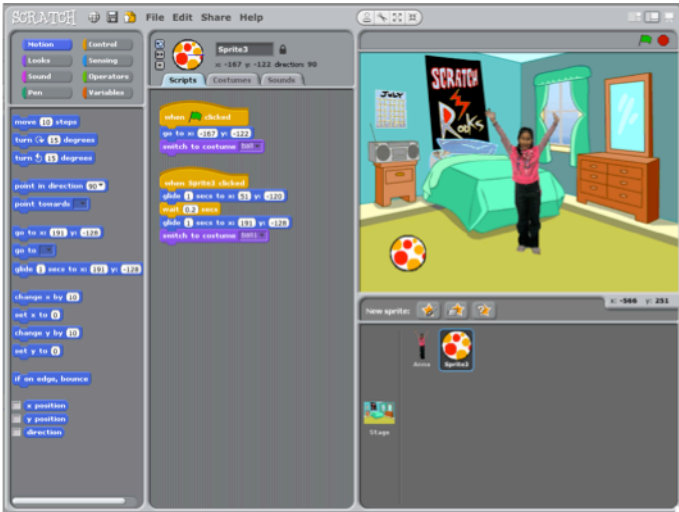


ABOUT ME



How can you combine interesting images and sounds to make an interactive collage about yourself?

STEP BY STEP...

1. Add a sprite



paint your own sprite

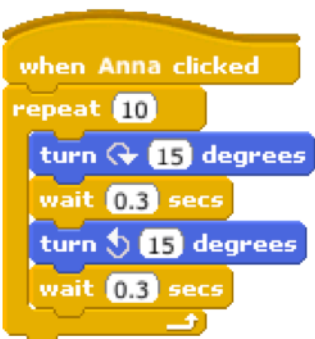
choose a downloaded or library sprite

get a surprise sprite

2. Make it interactive

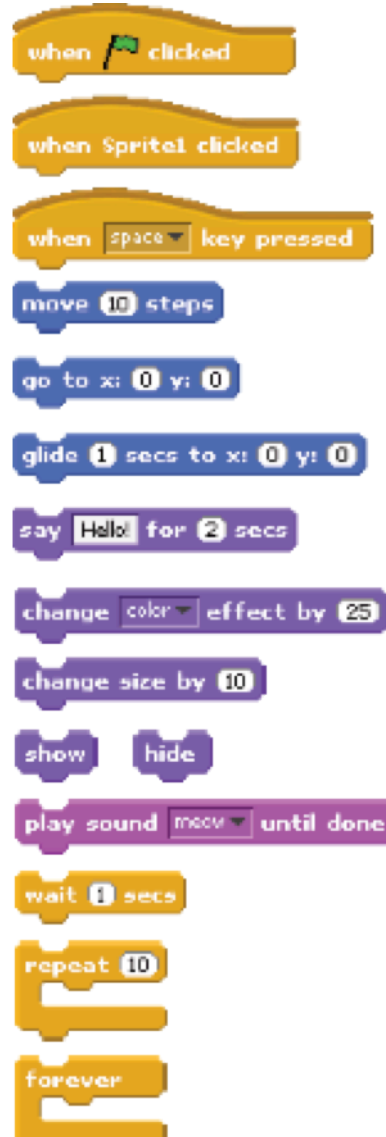


make your sprite interactive by adding scripts that have the sprite respond to clicks, key presses, and more



3. Repeat!

BLOCKS TO PLAY WITH...



DANCE PARTY



Create your own interactive dance party where sprites get down with cool costumes and funky beats.

STEP BY STEP...

1. Add a sprite



paint your own sprite

choose a downloaded or library sprite

get a surprise sprite

2. Make it interactive

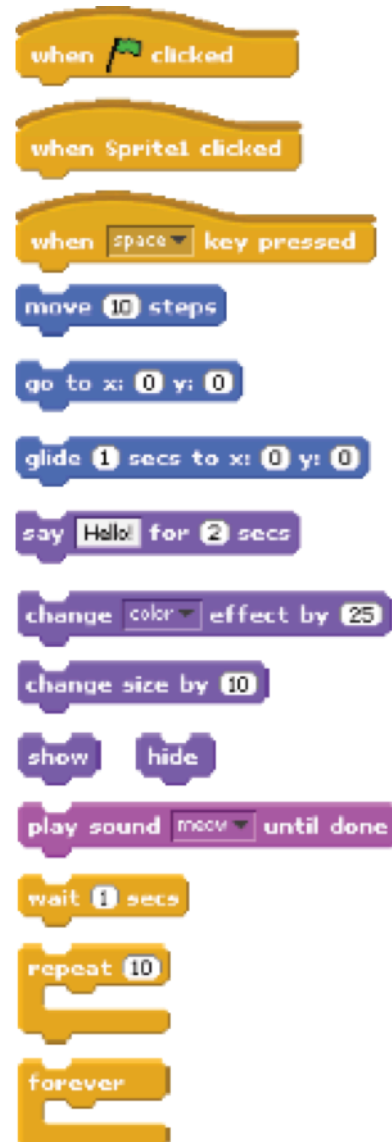


snap blocks together to make your sprite dance

make your sprite interactive by adding scripts that have the sprite respond to clicks, key presses, and more

3. Repeat!

BLOCKS TO PLAY WITH...



ARTS

Here are some blocks that can be useful in arts-themed projects.

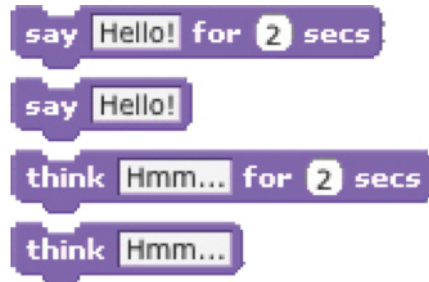
WAIT

Insert a pause



SAY/THINK

Have a speech or thought bubble appear over a sprite



SOUNDS

Play recorded and synthesized audio



VISIBILITY

Make a sprite appear or disappear



LOOP

Repeat stacks of blocks



RANDOM

Get a computer-generated number from a specified range



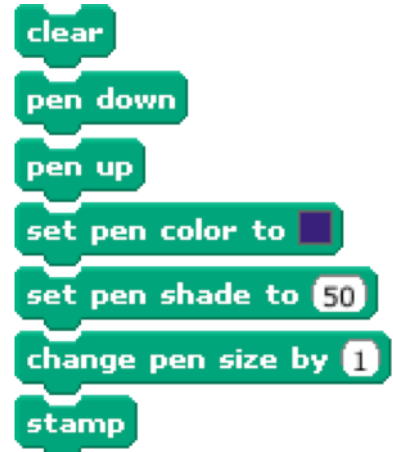
KEY PRESS

Make a sprite respond when different keys are pressed

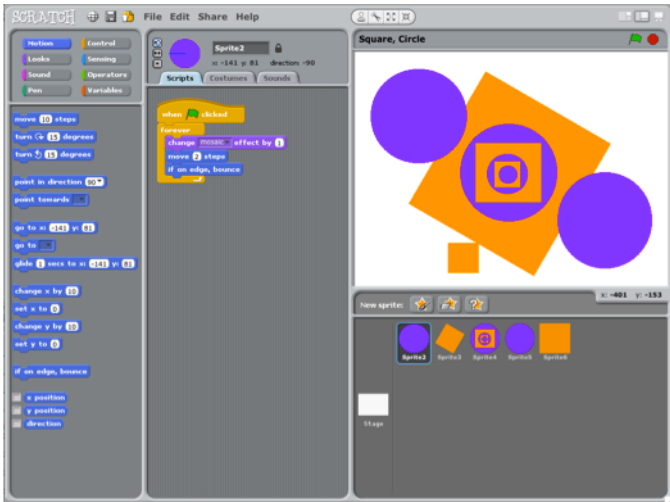


PEN

Leave visual lines and sprite stamps on the stage

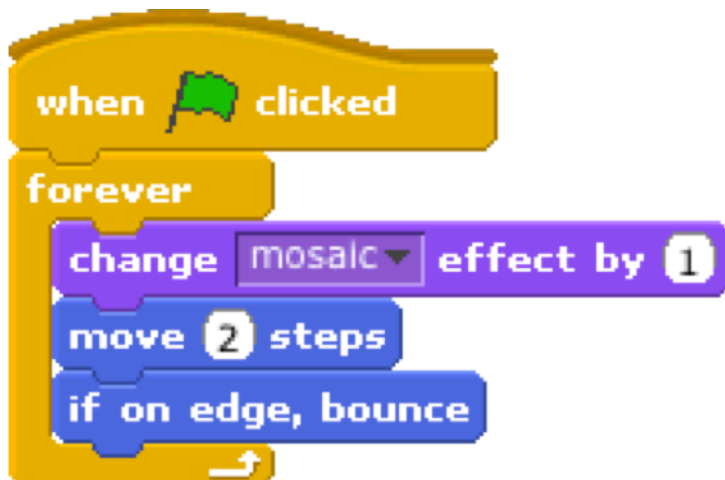
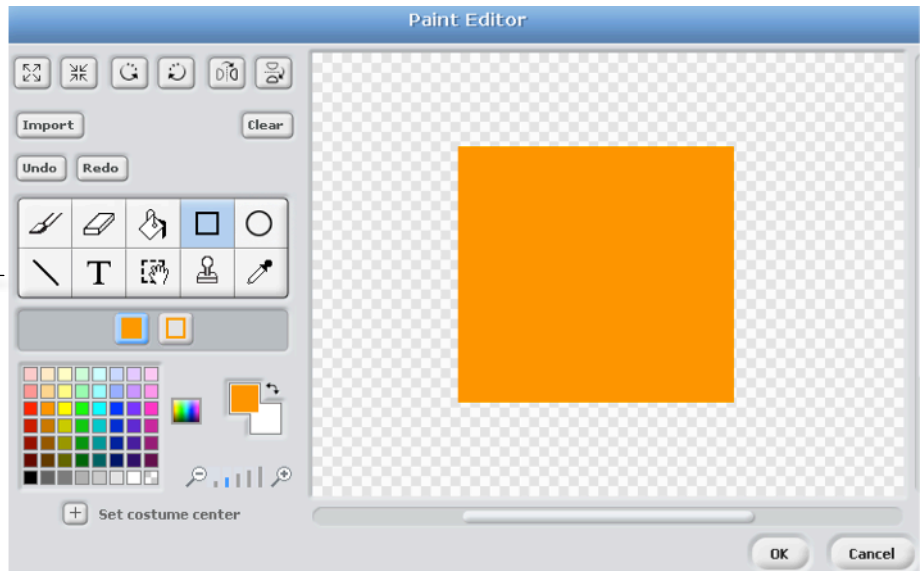


SQUARE, CIRCLE



What project can you create that includes an orange square and a purple circle?

use the paint editor to design sprites that incorporate an orange square and a purple circle

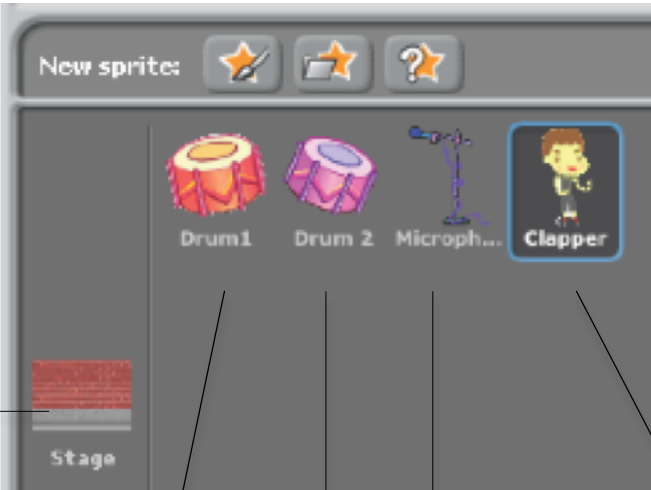


experiment with different motion and looks blocks to bring your sprites to life

BUILD-A-BAND



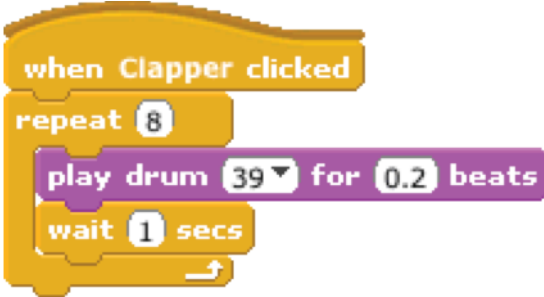
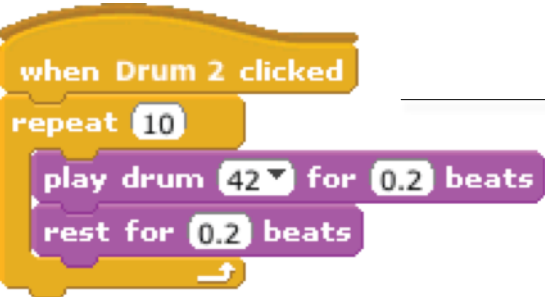
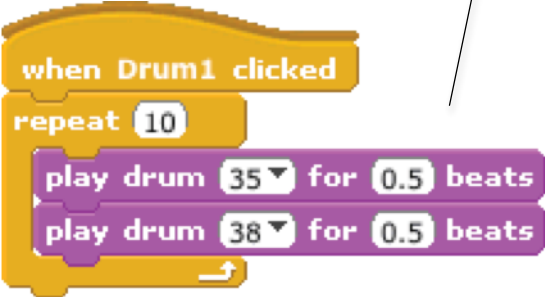
Create your own musical group by pairing sprites with sounds to make interactive instruments.



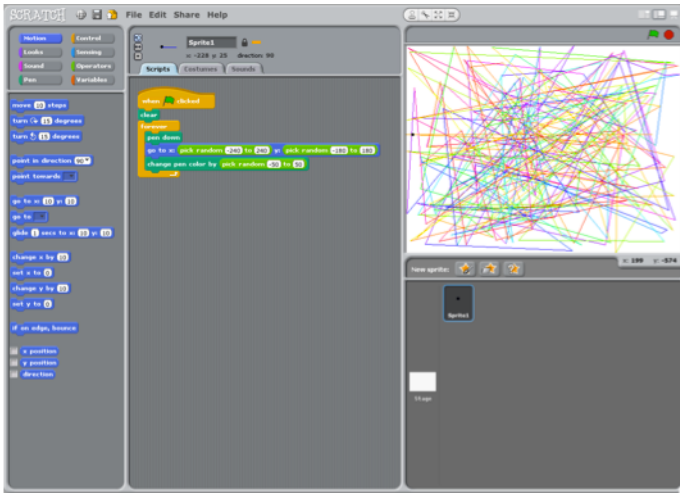
no scripts

use the repeat block to make a sound play more than once

experiment with different music and beats, or import your own sounds

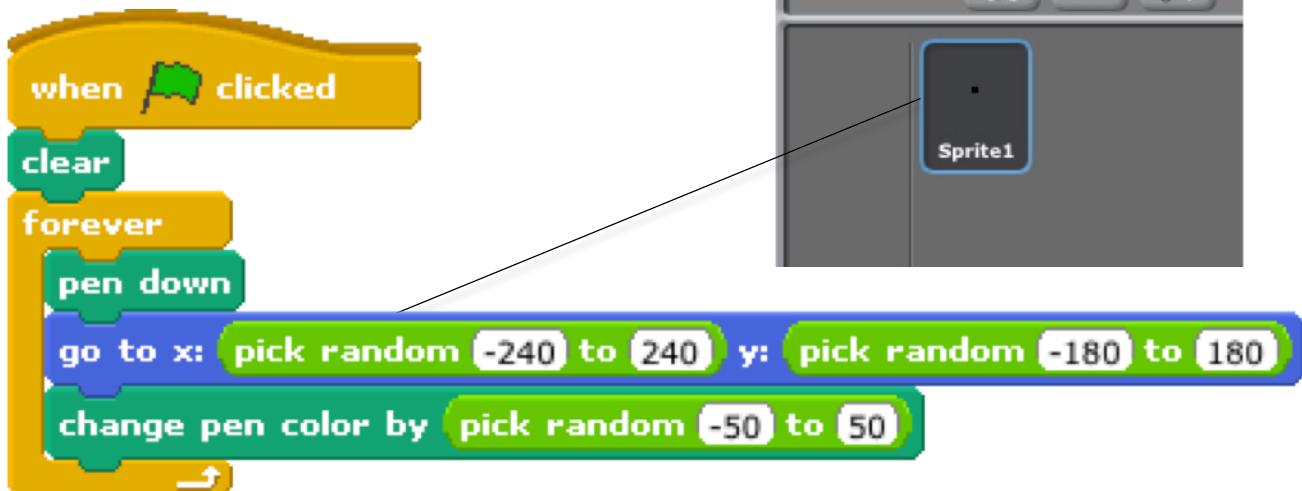
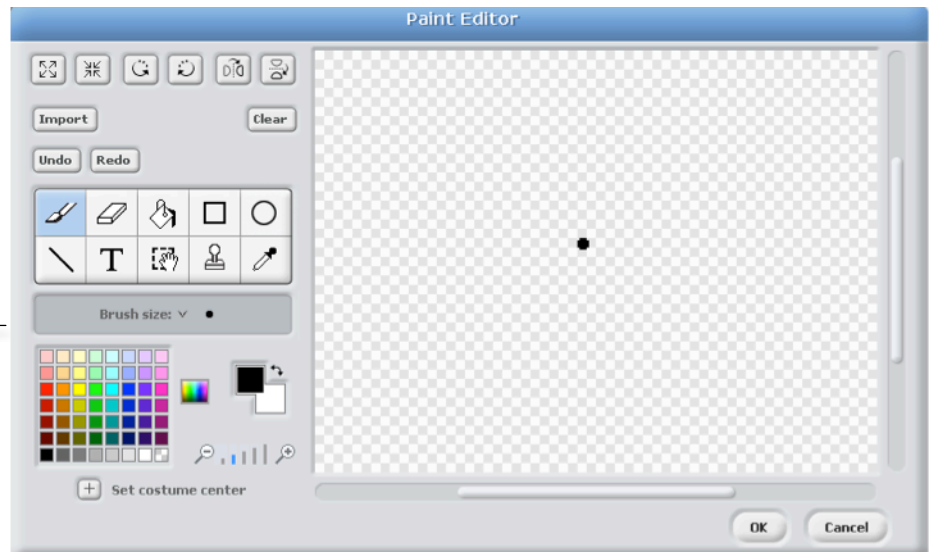


AUTOMATIC DRAWING



Make a project that draws something on its own.

create a sprite that
is just a small dot



STORIES

Here are some blocks that can be useful in story-themed projects.

WAIT

Insert a pause



SAY/THINK

Have a speech or thought bubble appear over a sprite



SOUNDS

Play recorded audio



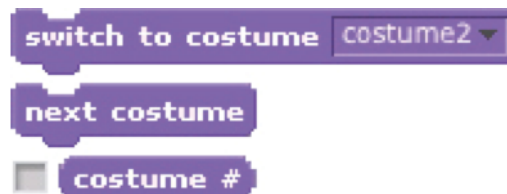
VISIBILITY

Make a sprite appear or disappear



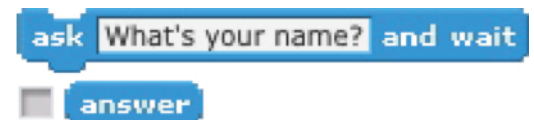
COSTUMES

Change the appearance of your sprite



ASK

Get input to use in a project



STRINGS

Test, access, and change words and sentences



COORDINATE

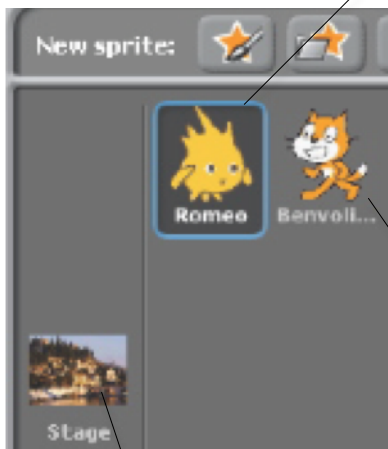
Synchronize actions between and within sprites



CONVERSATION



Get two characters talking to each other.
Use the **say** and **wait** blocks to coordinate the conversation.



1 script

1 script

no scripts
add a background

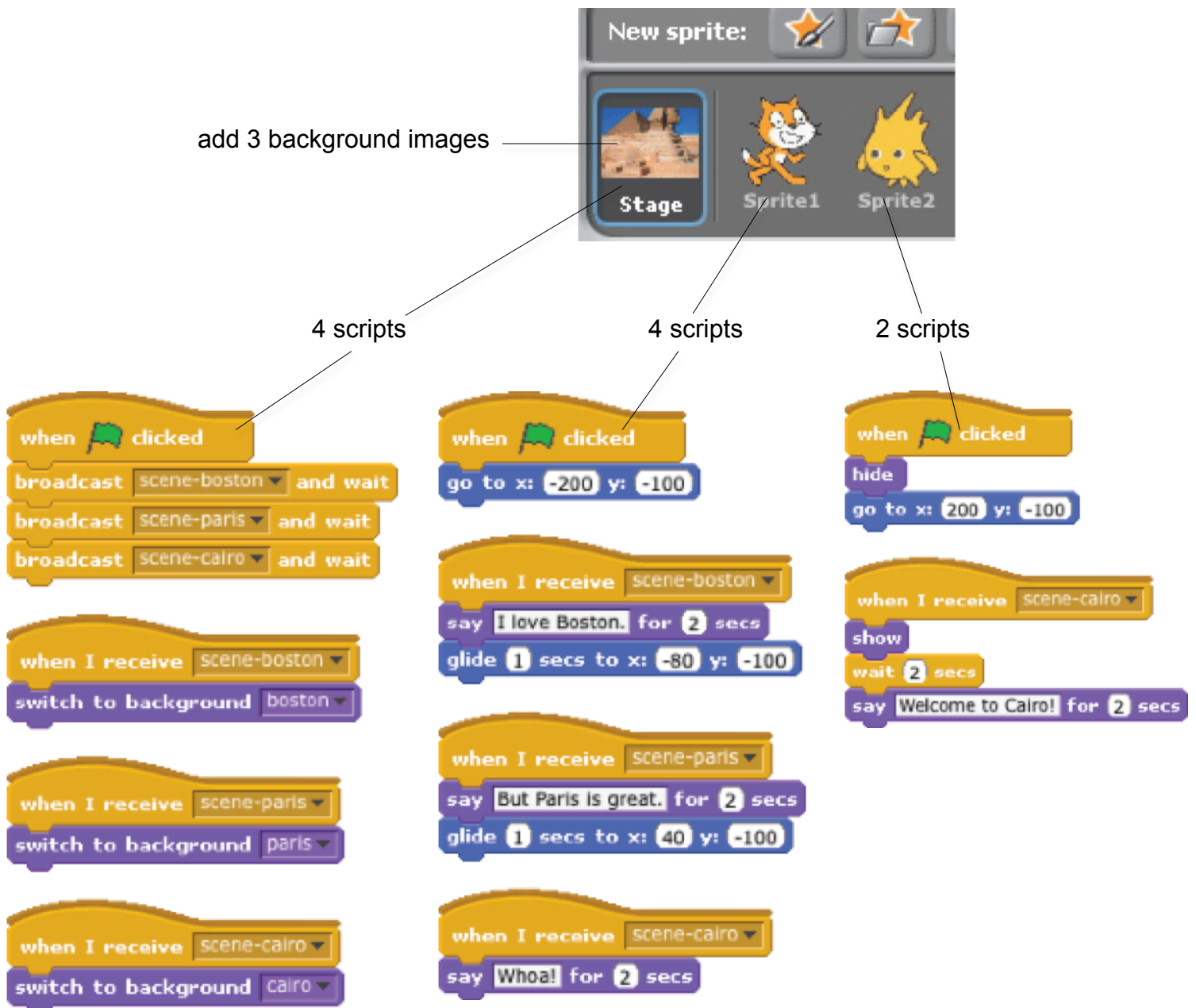
```
when green flag clicked
say Ay me! Sad hours seem long. for 2 secs
wait 2 secs
say Not having that, which, having, makes them short. for 2 secs
wait 2 secs
say Out-- for 2 secs
wait 2 secs
say Out of her favour, where I am in love. for 2 secs
```

```
when green flag clicked
wait 2 secs
say What sadness lengthens Romeo's hours? for 2 secs
wait 2 secs
say In love? for 2 secs
wait 2 secs
say Of love? for 2 secs
wait 2 secs
say Alas, that love, so gentle in his view, for 2 secs
say Should be so tyrannous and rough in proof! for 2 secs
```

SCENES



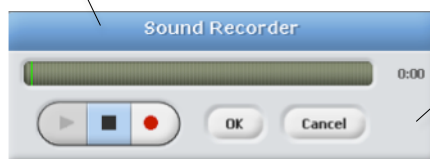
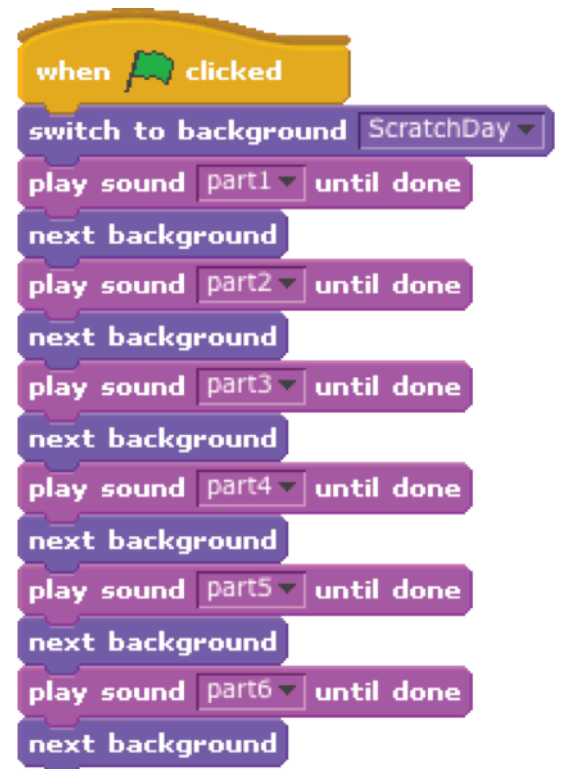
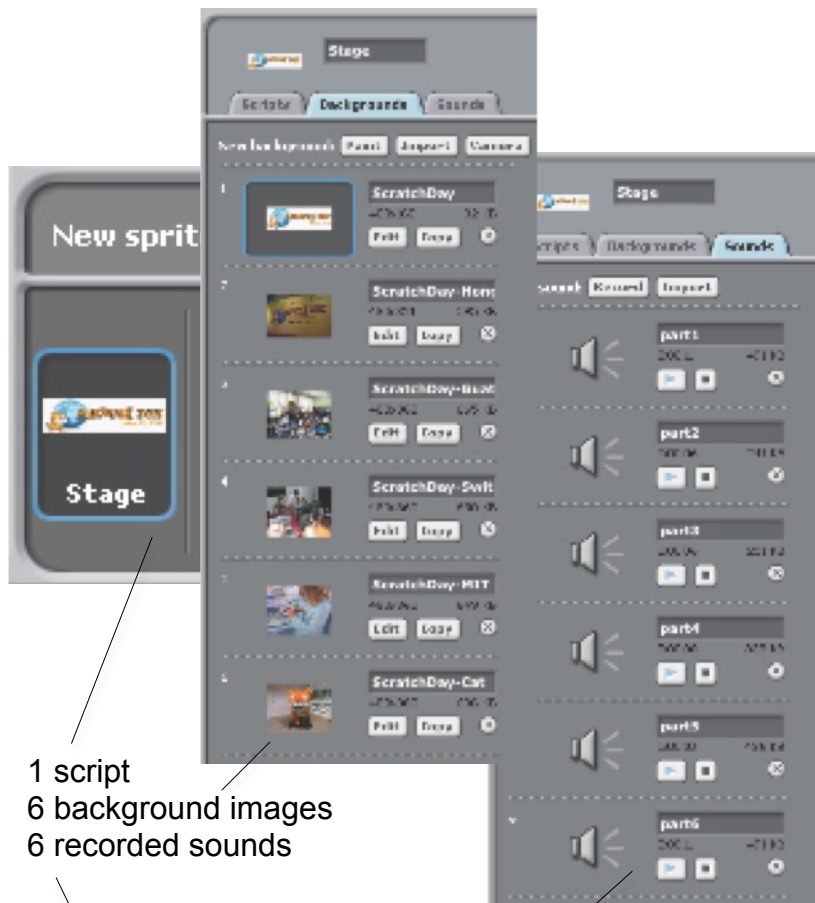
Use the **broadcast** and **when I receive** blocks to create a multi-scene story.



SLIDESHOW



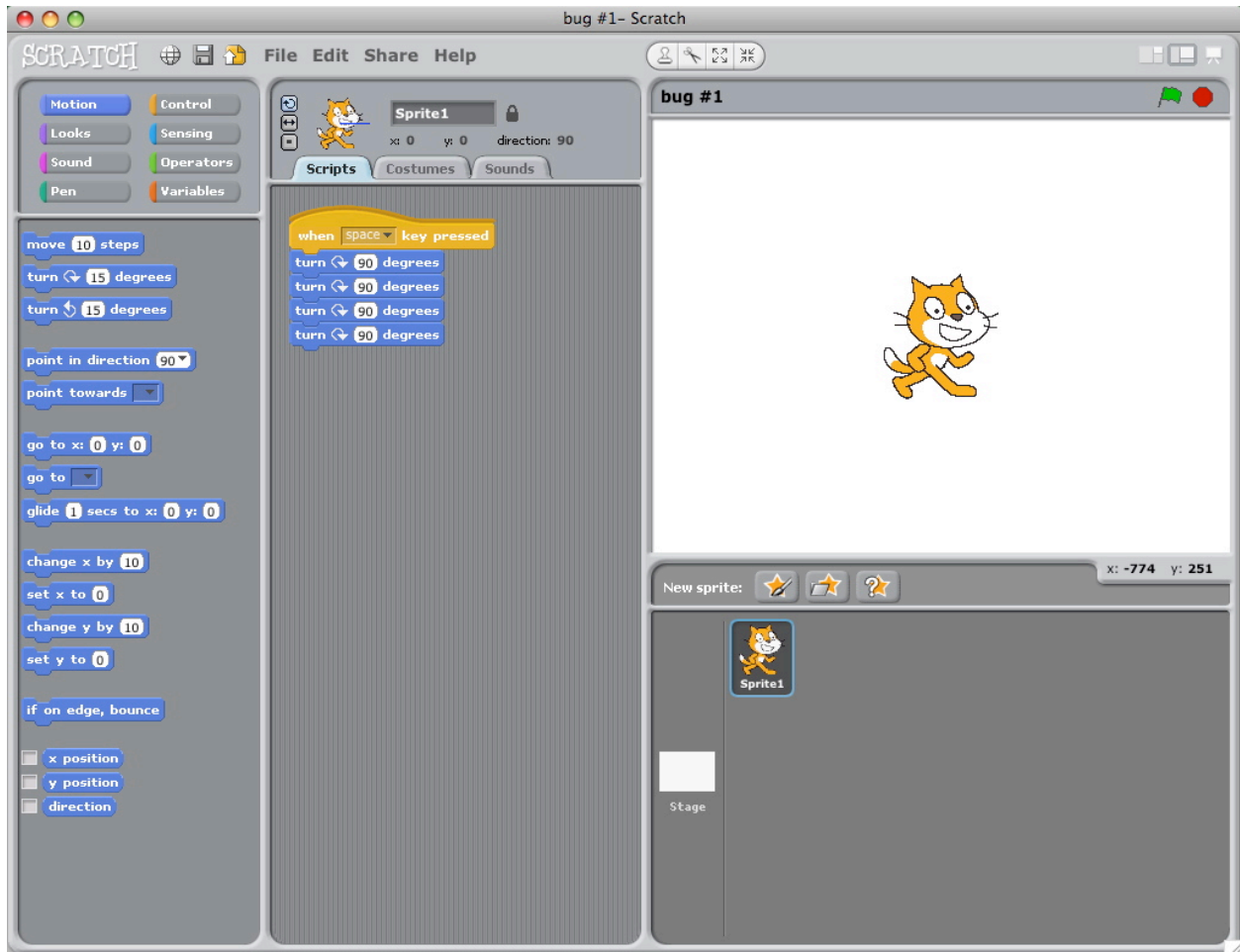
Create your own slideshow – a collection of background images accompanied by audio narration.



record your narration right in Scratch with the sound recorder

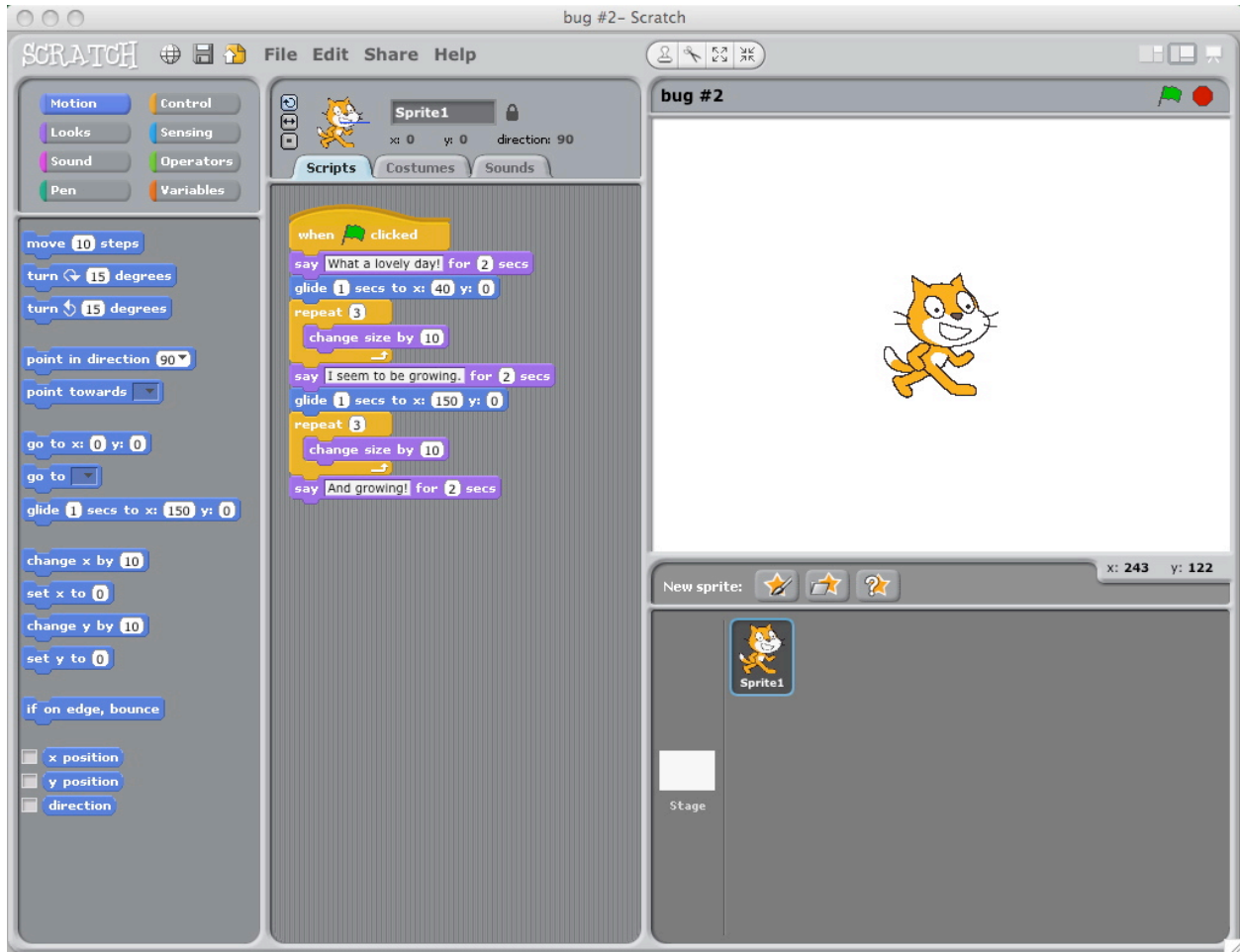
BUG #1

Farooq wants his cat to rotate when he presses the space bar. But the cat isn't moving! What's going on?



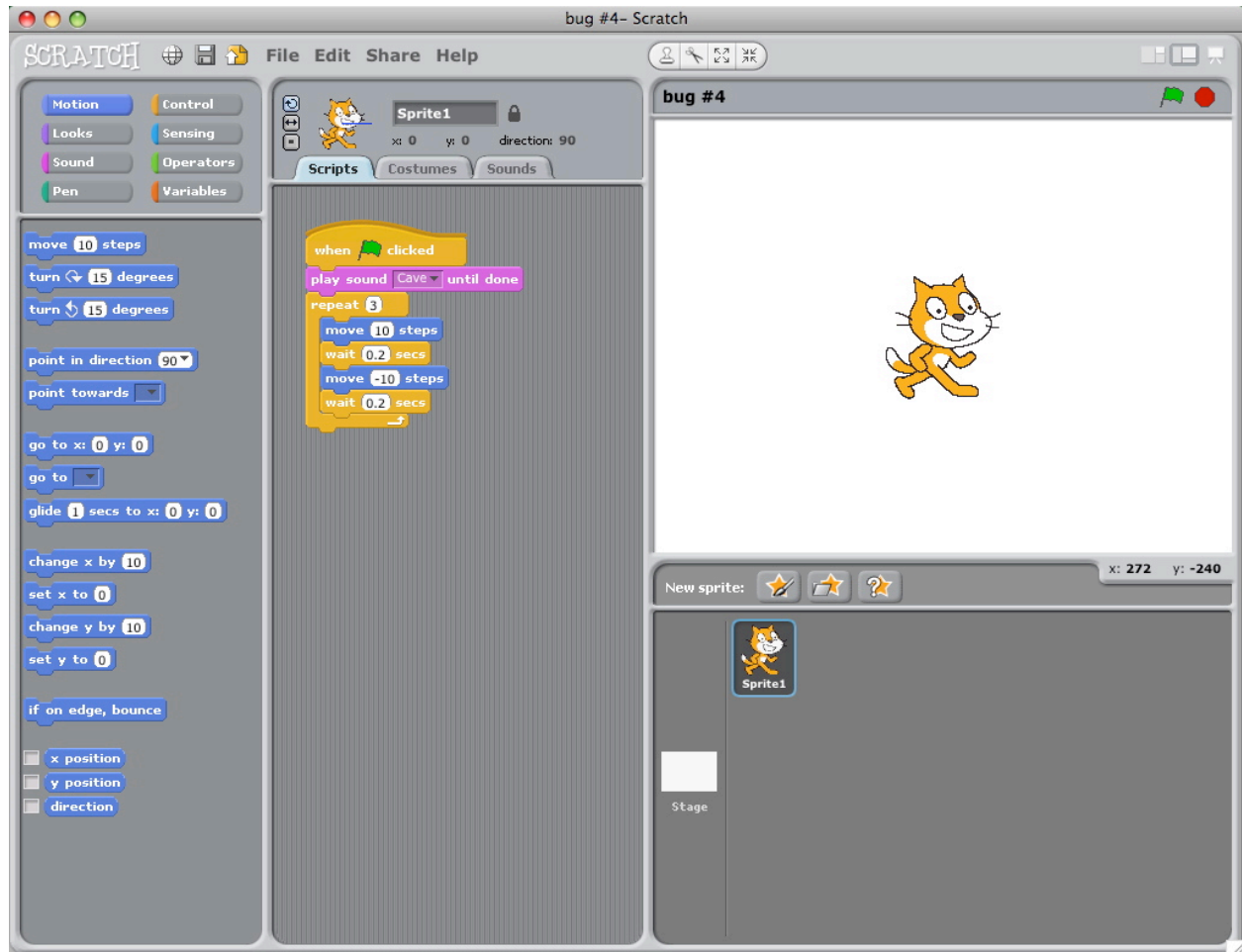
BUG #2

Michelle wants the cat to start in the middle of the stage, then move across the stage and grow. It works the first time she clicks the green flag – but not when she clicks it again! What's going on?



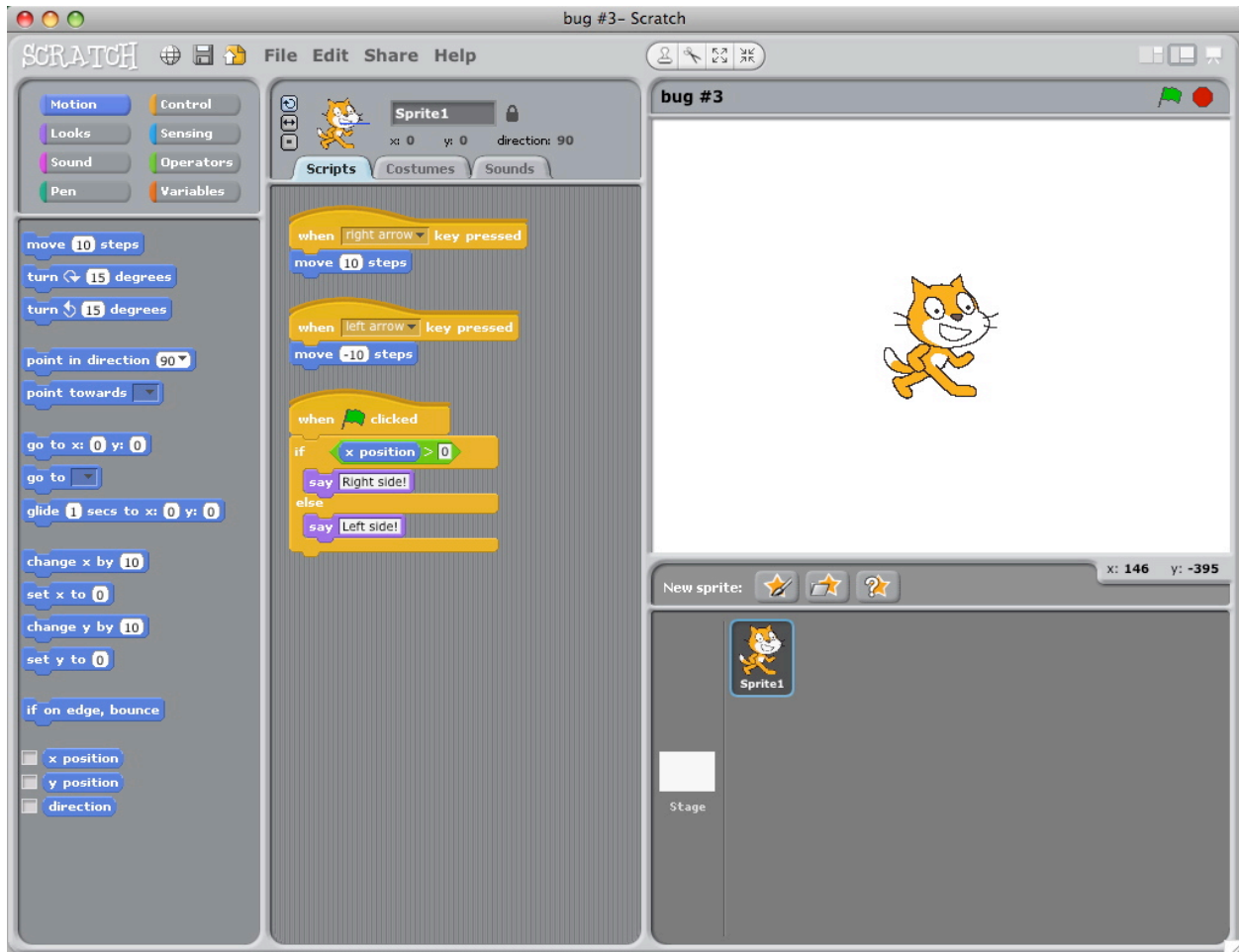
BUG #3

Alex wants his cat to dance to some music. But the cat is dancing after the music is over! What's going on?



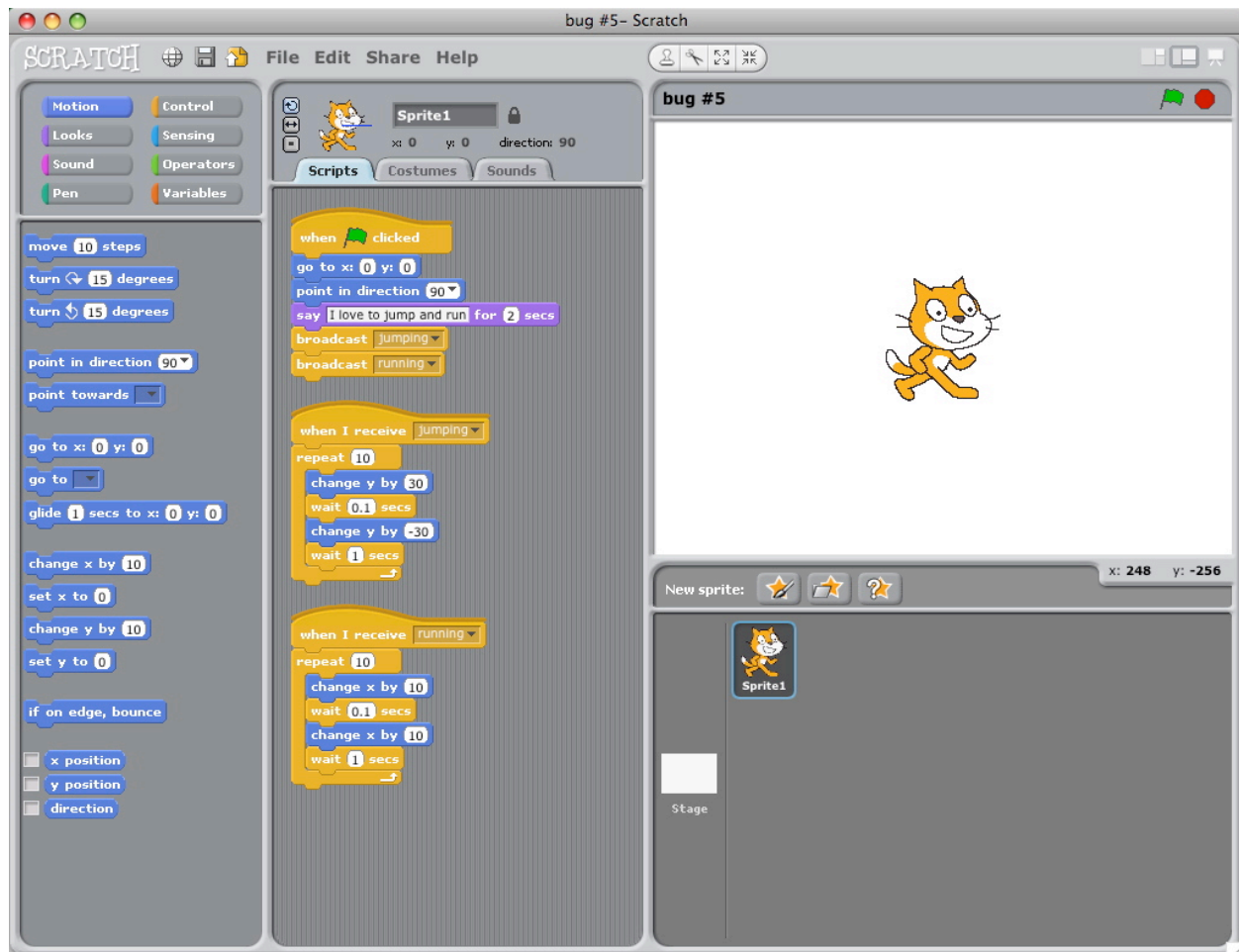
BUG #4

Praneetha wants to control the cat's x-position with the keyboard: right arrow moves the cat right, left arrow moves the cat left. She also wants the cat to say if it's on the right side or the left side, depending on its x-position. The cat's moving, but not saying its position correctly! What's going on?



BUG #5

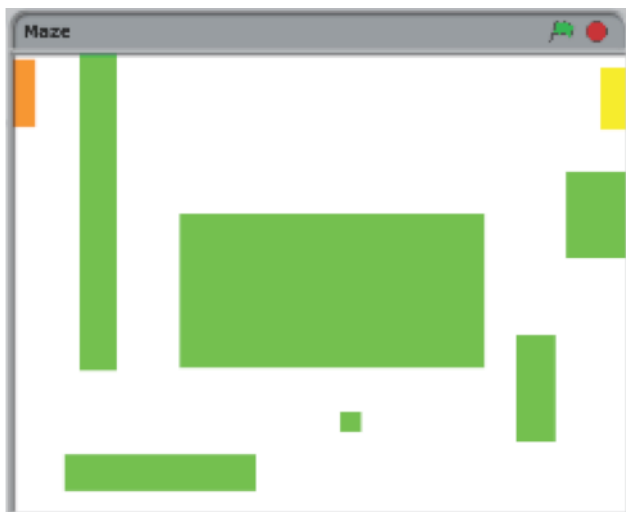
Nobuyuki wants his cat to jump up and down, and then move across the screen. But the cat's hopping across the screen! What's going on?



BUG #6

Design your very own puzzling Scratch program to debug.

MAZE



Create a game where you get a sprite from the start to the end of a maze without touching the walls.

7 scripts total



move the sprite around

have the sprite bounce off the green walls

no scripts, draw a maze-like background with colored walls and a differently colored end marker



players wins when sprite reaches the yellow end marker

GAMES

Here are some blocks that can be useful in games.

TOUCHING

See if two sprites are touching or if a sprite is touching a color



VISIBILITY

Make a sprite appear or disappear



RANDOM

Get a computer-generated number from within a specified range



TIMING

Have the computer keep track of time for you



STRINGS

Test, access, and change words and sentences



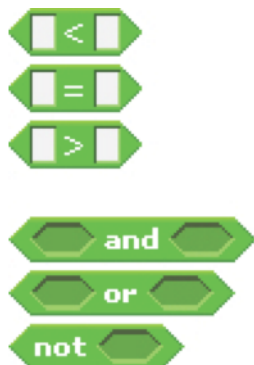
VARIABLES

Store a number or string in a container to access later



COMPARE

Compare values to help make decisions within your game

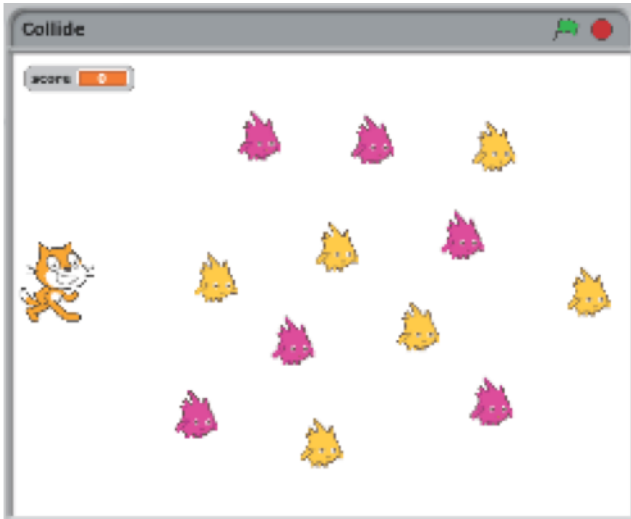


KEY PRESS

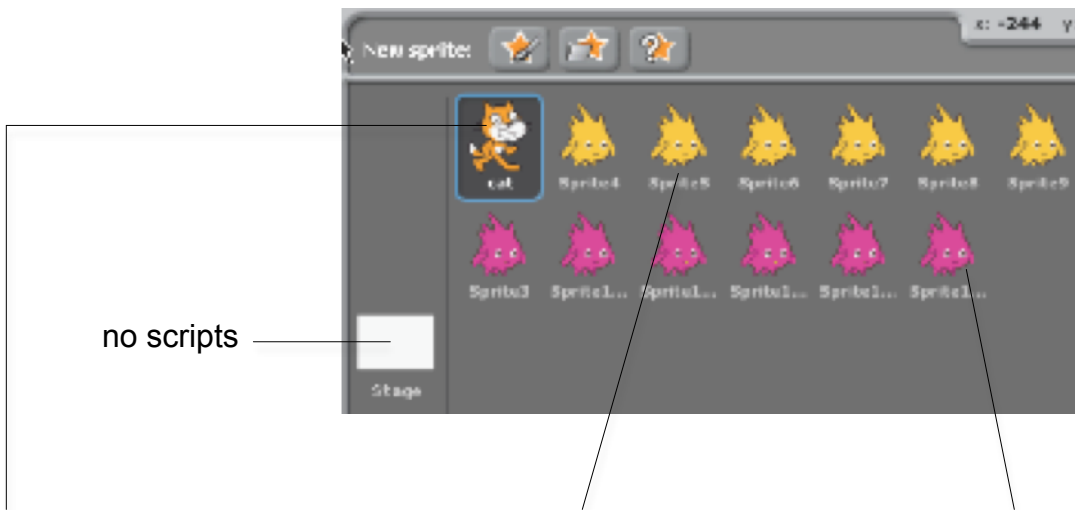
Make a sprite respond when different keys are pressed



COLLIDE



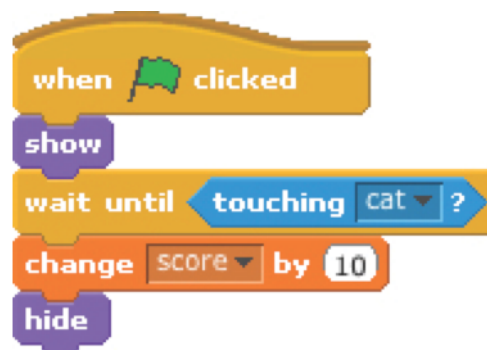
Help the cat navigate a field of Gobos. Collect yellow gobos to earn points, avoid pink gobos to avoid losing points.



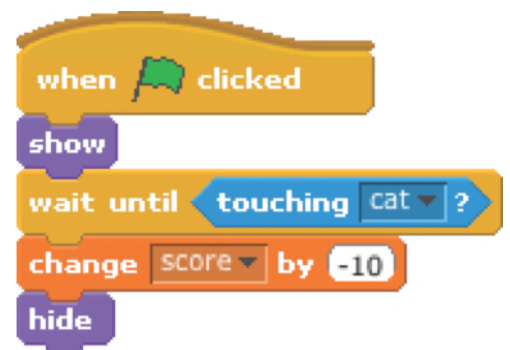
reset the cat's position and the score



when the cat collides with a yellow gobo, the gobo disappears and the score increases by 10



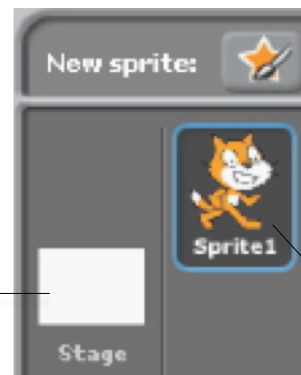
when the cat collides with a pink gobo, the gobo disappears and the score decreases by 10



CATLIBS



Create a unique Madlib story by collecting user input.



no scripts

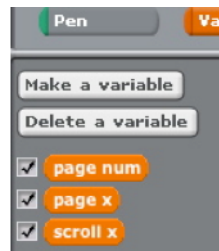
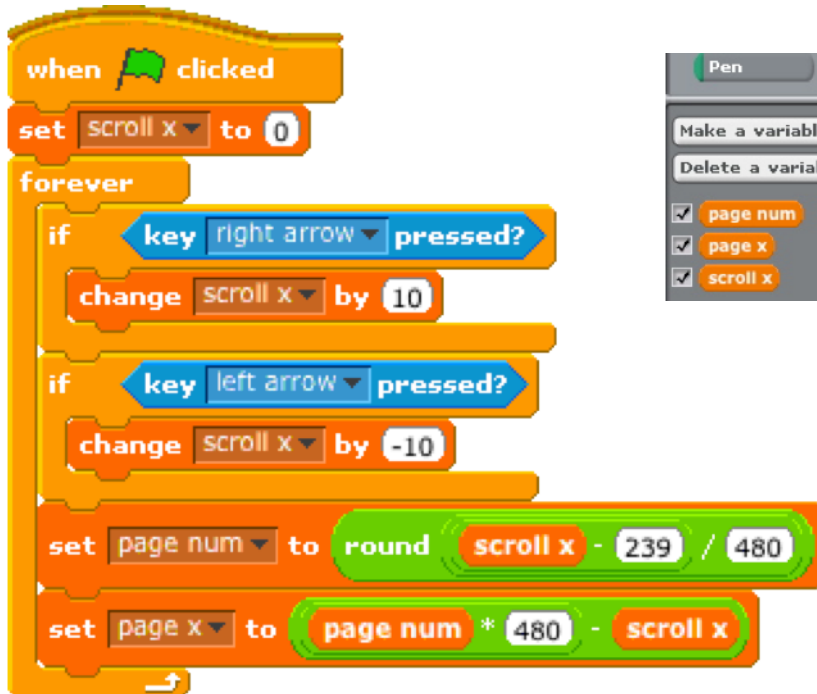
1 script
4 variables



SCROLLING

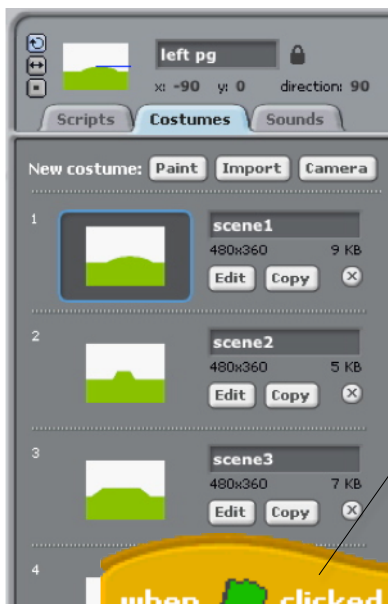
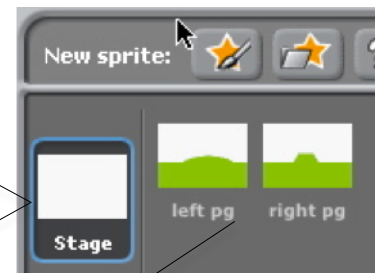


Create the foundation for a side scrolling game.



3 variables

1 script

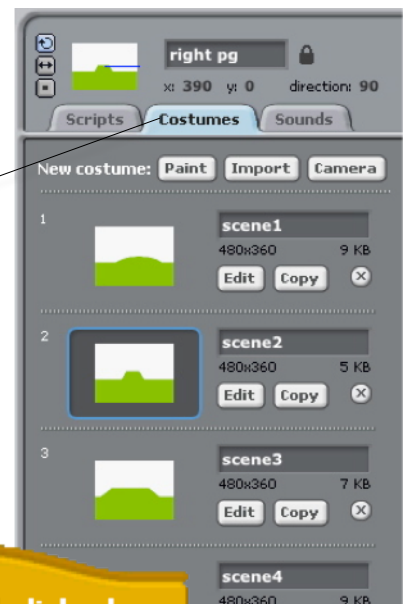
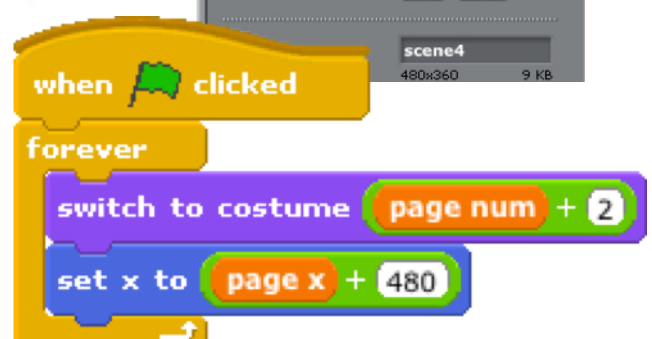


create two sprites:
one for the left background panel,
one for the right background panel

add the same (2 or more)
costumes to each sprite

add this script to the left sprite

add this script to the right sprite



Plan for my final project

Name: _____

A description of the project that I want to create:

The steps I will take to develop my project:

The resources (e.g. people, sample projects) I already have to develop my project:

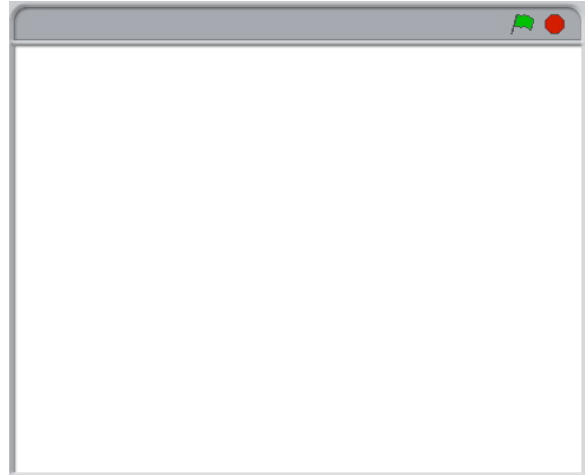
The resources (e.g. people, sample projects) I might need to develop my project:

Sketches of my final project

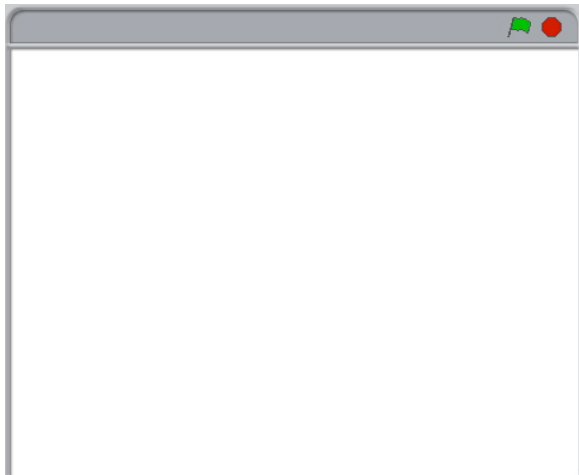
Name: _____



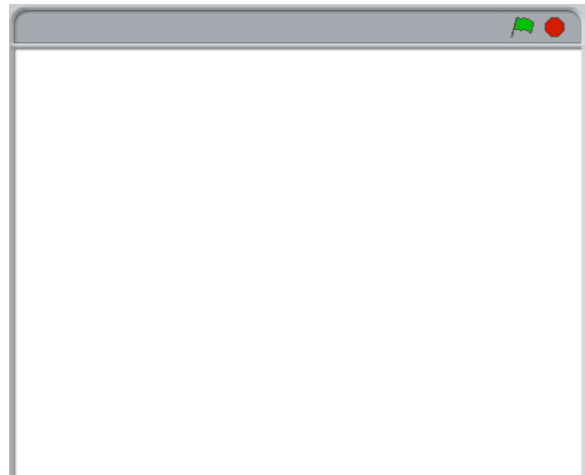
What's happening?
What are the important elements?



What's happening?
What are the important elements?



What's happening?
What are the important elements?



What's happening?
What are the important elements?

Project feedback

Feedback for: _____

Feedback by: _____

Parts of the project that I really liked

*Parts of the project that I would
fix or change or add*

Parts of the project that might be helpful to think about:

- *Clarity:* Did you understand what the project is supposed to do?
- *Features:* What features does the project have? Does the project work as expected?
- *Appeal:* How engaging is the project? Is it interactive, original, sophisticated, pretty, funny, or interesting? How did you feel as you interacted with the project?

My project reflections

Name: _____

What?

What is your project?

How does it work? How did you come up with the idea?

So what?

What was your process for developing the project?

What was interesting, challenging, and surprising? Why?

What did you learn?

Now what?

What are you most proud of about your project? What would you change?

What do you want to create next? Why?

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